Surface Water Sampling Estimated

TABLE 2. DISCHARGE MONITORING OF TAILWATER, STORMWATER, AND SEDIMENT TOXICITY

Constituent (a)	Frequency (as given in Table 1)	
Flow or volume of discharge	D.1, D.2, D.3, D.4	Field
Duration of discharge	D.1, D.2, D.3, D.4	Field
Turbidity	D.1, D.2 (b)	15
Temperature (water)	D.4 (c)	Field
pH	D.1, D.2, D.4 (c)	25
Electrical conductivity (EC) (at 25 C)	D.1	25
Nitrate + nitrite (as nitrogen)	D.1, D.2, D.4	35
Dissolved oxygen	D.1, D.2, D.4	35
Ammonia	D.4 (d)	53
E. coli	D.1, D.2 (e)	40
Pesticide(s)	D.3 (f)	325
Hardness (as $CaCO_3$)	D.3 (g)	144
~~Sediment toxicity to *Hyalella aztoca*~~	D.5	
~~Sediment Total Organic Carbon~~	D.5	
~~Sediment Grain Size~~	D.5	097

a. Analytical methods, reporting limits, and reporting units are listed in Appendix MRP-1.
b. When measuring effluent turbidity, upstream receiving water turbidity shall also be measured.
c. For D.4 discharges, temperature and pH measurement is only required when ammonia is used.
d. Required when ammonia is used in fertigation.
e. Required for irrigated pasture operations, as well as any operation type where manure is applied within the last year.
f. Pesticides that must be monitored are listed in section V of this MRP.
g. Hardness samples are only required when sampling for dissolved copper.

3. Tile drainage system discharge monitoring

Beginning within six months of issuance of an NOA, the Discharger shall sample each subsurface (tile) drainage system discharge to surface water. This monitoring shall be conducted at the frequency and for the constituents specified in Table 3 below.

TABLE 3. TILE DRAINAGE SYSTEM DISCHARGE MONITORING [a]

<u>Annually during the irrigation season</u>:
Flow rate or volume of discharge

Duration of discharge

Field measurements of electrical conductivity (at 25 °C) (µmhos/cm)

Laboratory analyses of nitrate + nitrite (as nitrogen) (mg/L)

<u>With initial annual monitoring and once every 5-years thereafter:</u>
6800(a) pesticides used within the previous 6-months [b]

a. Analytical methods, reporting limits, and reporting units are listed in Appendix MRP-1.